

### AMENDMENTS TO THE CLAIMS

1. **(Currently amended)** A screening and/or quantification method of one or more activated transcriptional factors(s) present in a cell or cell lysate, said method comprising the steps of:

(a) binding to an insoluble solid support double-stranded DNA sequence(s) at the concentration of at least  $0.01 \text{ pmole/cm}^2$  of said solid support surface, wherein the solid support is an array bearing at least  $4 \text{ spots/cm}^2$  of solid support surface, each spot containing double-stranded DNA sequence(s) for the binding of activated transcriptional factor(s), said double-stranded DNA sequence comprising a specific sequence, said specific sequence being able to bind said one or more activated transcriptional factor(s) and said double-stranded DNA sequence being connected to the surface of the solid support by a spacer wherein said spacer is a double-stranded DNA nucleotide sequence of between about 50 and about 250 base pairs, or wherein the spacer comprises a double-stranded DNA nucleotide sequence of between about 50 and about 250 base pairs;

(b) putting into contact said one or more activated transcriptional factor(s) with said bound double-stranded DNA sequence(s); and

(c) identifying and/or quantifying a signal specific for ~~resulting from~~ the binding of said activated transcriptional factor(s) upon said double-stranded DNA sequence(s).

2. **(Original)** The method according to claim 1, wherein the transcriptional factor is present in solution at concentration lower than 20 nmolar (nM).

3. **Canceled**

4. **(Currently amended)** The method according to claim 1, wherein the signal resulting from the binding of the activated transcriptional factor upon the double-stranded DNA sequence is a non-radioactive signal.

5. **(Currently amended)** The method according to claim 1, wherein the signal resulting from the binding of the activated transcriptional factor upon the double-stranded DNA sequence is obtained through an enzymatic reaction.

6. **(Currently amended)** The method according to claim 1, for the screening and/or quantification of multiple different activated transcriptional factors present in a same biological sample.

7. **(Currently amended)** The method according to claim 1, for the screening and/or quantification of activated transcriptional factors selected from the group consisting of NF-KB, AP-1, CREB, SP-1, C/EBP, GR, HIF-1, Myc, NF-AT, Oct, TBP, CBF-1 and factors listed in table 1.

8. **(Currently amended)** The method according to claim 1, for the screening and/or quantification of multiple different activated transcriptional factors upon a same support upon the same multiwell plate.

9-11. **Cancelled**

12. **(Previously presented)** The method according to claim 1, wherein the binding of the double-stranded DNA sequence(s) to the insoluble solid support is of non-covalent type and includes a binding pair comprising a first member and a second member, said first member being bound to the double-stranded DNA sequence, said second member being bound to the surface of the solid support.

13. **(Original)** The method according to claim 1, wherein the double-stranded DNA sequence(s) are covalently bound to the surface of the insoluble solid support.

14. **(Previously presented)** The method according to claim 1, wherein the double-stranded DNA sequence comprises repeated specific sequences.

15. **(Previously presented)** The method according to claim 1, wherein the double-stranded DNA sequences fixed on the support surface contain in part or totally one or several of the specific DNA sequences presented in the table 1.

16. **(Currently amended)** A screening and/or quantification method of one or more activated transcriptional factors(s) present in a cell or cell lysate, said method comprising the steps of:

(a) binding to an insoluble solid support double-stranded DNA sequence(s) at the concentration of at least  $0.01 \text{ pmole/cm}^2$  of said solid support surface, wherein the solid support is an array bearing at least  $4 \text{ spots/cm}^2$  of solid support surface, each spot containing double-stranded DNA sequence(s) for the binding of activated transcriptional

factor(s), said double-stranded DNA sequence comprising a specific sequence, said specific sequence being able to bind said one or more activated transcriptional factor(s) and said double-stranded DNA sequence being connected to the surface of the solid support by a spacer wherein said spacer is a double-stranded DNA nucleotide sequence of between about 50 and about 250 base pairs, or wherein the spacer comprises a double-stranded DNA nucleotide sequence of between about 50 and about 250 base pairs;

(b) putting into contact said one or more activated transcriptional factor(s) with said bound double-stranded DNA sequence(s); and

(c) identifying and/or quantifying a signal specific for ~~resulting from~~ the binding of said activated transcriptional factor(s) upon said double-stranded DNA sequence(s),

wherein said activated transcriptional factor is the HIV integrase.

17. **(Previously presented)** The method according to claim 1, comprising the step of identifying at least one characteristic specific of the transcriptional factor activation.

18. **(Currently amended)** The method according to claim 1, which comprises the steps of screening, quantifying and/or recovering compounds able to bind to said activated transcriptional factor(s) or inhibit the binding of said activated transcriptional factor(s) to the specific sequence upon the double-stranded DNA sequence(s) bound to said solid support.

19. **(Currently amended)** The method according to claim 1, which further comprises prior to step (b) the step of contacting said cells with a candidate compound which is being evaluated to determine ~~determine~~ whether it modulates the binding and/or activity of the said activated transcriptional factor(s).

20. **(Previously presented)** The method according to claim 1, which further comprises prior to step (b) the step of contacting said cells with a candidate compound which is being evaluated to determine whether it modulates activity of enzyme(s) or protein(s) acting on transcriptional factor(s).

21. **(Currently amended)** A The method according to claim 1, wherein step (c) ~~which further~~ comprises the step of identifying transcriptional factor(s) and/or peptides which are part of the transcriptional factor(s) active complex.

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22. **(Previously presented)** The method according to claim 1, which comprises the step of adding in the cell lysate an externally added transcriptional factor or a compound which is able to bind to the specific sequence.

23-33. **Cancelled**

34. **(Previously presented)** The method of Claim 12, wherein said binding pair is biotin/streptavidin.

35. **Cancelled**

36. **(Previously presented)** The method according to claim 12, wherein the binding pair is selected from the group consisting of biotin/streptavidin, hapten/receptor and antigen/antibody binding pair.

37. **(Currently amended)** The method according to claim 1, wherein step b) comprises putting into contact said one or more activated transcriptional factor(s) in a cell lysate with said bound double-stranded DNA sequence(s).

38. **Cancelled**

39. **(New)** The method of Claim 1, wherein said identifying and/or quantifying said signal is obtained, detected and/or quantified by addition of antibodies specific for the activated transcriptional factor(s).

40. **(New)** The method of Claim 1, wherein said identifying and/or quantifying said signal is obtained, detected and/or quantified by addition of antibodies specific for compounds involved in the formation of an activation complex comprising said transcriptional factors.